Survival, Habitat Use, and Movements of Female Mallards

Bruce Davis & Paul Link – LSU Grad Students

Partners:

Louisiana Dept. of Wildlife & Fisheries

Ducks Unlimited Inc.

U.S. Fish & Wildlife Service through Gulf Coast JV USGS-LA Cooperative Fish & Wildlife Research Unit



Flyway Issues

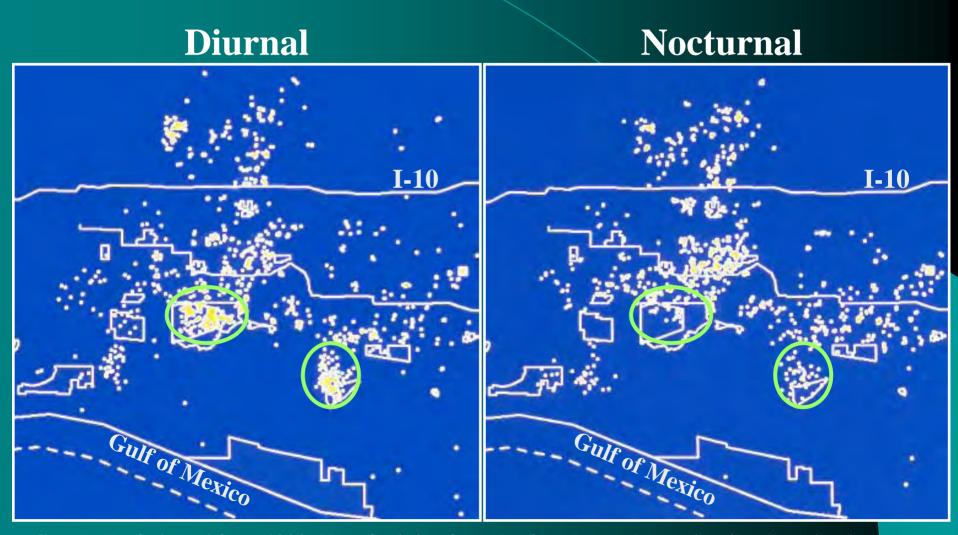
- Continental duck populations
- Weather
- Changes in agricultural practices
- Hunting pressure effects
- Others

Local and Regional Issues

- Refuge use
- Habitat changes
- Effects of hunting pressure on duck behavior

Radio-tagged Pintail Locations

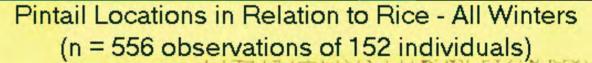
1991-92 & 1992-93

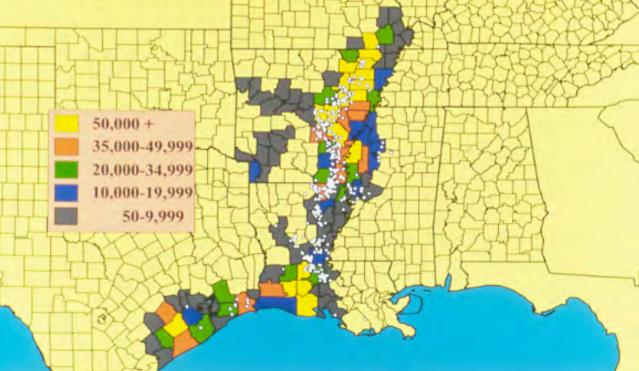


Cox, R. R. & A.D. Afton. 1998. Use of mini-refuges by female northern pintails wintering in southwestern Louisiana. Wildlife Society Bulletin 26(1):130-137.

Pintail Long-range Movements







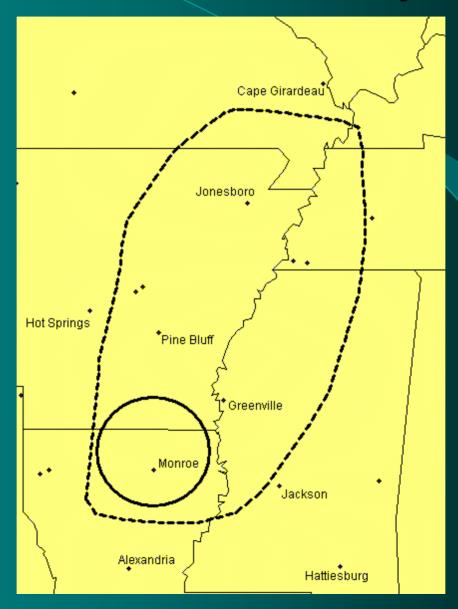
Mallard Study Objectives

- Document local & long-range movements
- Describe diurnal & nocturnal habitat use
- Estimate female survival during winter
- Identify factors affecting movements, habitat use & survival
- Where possible, compare historical and current data

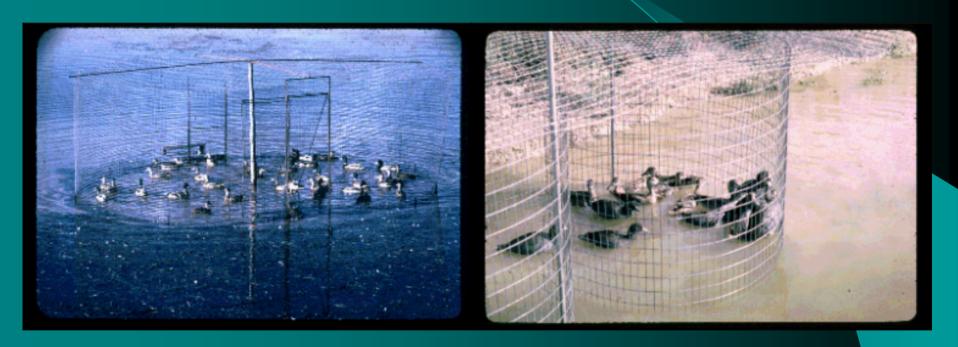
SW Louisiana Study Site



NE Louisiana Study Site



Trapping Techniques Swim-In Bait Traps



Trapping Techniques

Rocket Nets







Trapping Techniques Rocket Nets



Satellite vs. VHF Radios

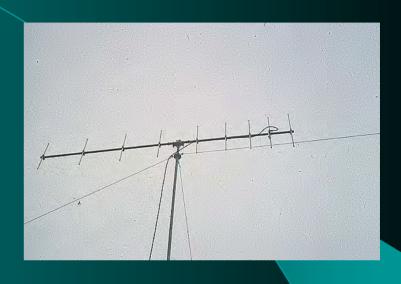
- Weight and size
- Cost
- Accuracy





Radio-Telemetry Techniques









Radio-Tracking Effort

- Habitat Use
- 50 mi radius Core Areas (SW and NE LA)
- 8 locations/week/female (4 day, 4 night)

- Migration Rates and Long-range Movements
- weekly "lost bird" flights

- Survival
- overall estimates and within each core area

